



Architectural Series Panels

Architect's and Engineer's Specifications

1. Electric radiant ceiling panels shall be manufactured by Therma-Ray Incorporated; construction and options as attached. Panels shall be CSA or UL Certified for the wattage, voltage and size as specified in the schedule.
2. Panels shall use a high-quality alloy resistance wire element electrically insulated with an approved TEFZEL® compound rated at 200°C. The heating element is uniformly arranged over the entire face of the panel to provide evenly distributed radiant heat. High-efficient reflective foils are used to adhere the heating element to the radiant panel.
3. Panels are to be designed with a watt density range of 65-95 watts/ft² at rated voltage.
4. The panel shall contain two-inch thick, four-pound density high temperature mineral wool insulation. Fiberglass insulation is not acceptable.
5. Panel shall be constructed from heavy 22 gauge galvanized steel. Front panel shall be finished with a white textured high temperature baked-on powder coat. Textured finish enhances the radiant effect by providing a wider scattering of the radiant energy, increasing the panel's overall efficiency.
6. Panels will be a two-piece construction crimped together for strength and rigidity. Pop rivet construction is not acceptable.
7. Panel shall be provided with an electrical junction box attached to the back of the panel. Junction box shall be 4 in. x 4 in. x 1 ½ in. and shall be provided with a cover. Internal pigtail wires shall be provided for field wiring connection.
8. Hanging/support clips in each corner shall be manufactured into the panel for local code and earthquake installation requirements.
9. Provide special finishes. [Check one of the following options]:
 - Radiant panels to be silk-screened to match sample provided of architectural ceiling tile
 - Custom color panels to match color sample provided. Finish to be baked-on high temperature powder coat.
 - Stainless steel panel with 36 in. long sealite conduit and silicone seal seam.
 - 304 grade stainless steel.
 - 316 grade stainless steel.
10. Provide panel with the following optional mounting system. [Check one of the following options]:
 - Surface mounting frame kits sized to radiant panel heater.
 - Plaster mounting frame kits sized to radiant panel heater.
 - Radiant panel with Tegular reveal edge for 15/16 in. grid.
 - Radiant panel with Fineline Tegular reveal edge for 9/16 in. grid.
11. Additional special features. [Check options to be included]:
 - Sealite flexible conduit and connectors for use in high moisture areas. See schedule for conduit length.
 - Silicone sealed seams for protection in high moisture areas.
12. The following accessories shall be factory furnished for field installation. [Check options to be included]:
 - Filler panels to match panel style and finish. Provides a continuous appearance along ceiling line.
 - SmartRooms Controller to regulate temperature.